

CLAIMS

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43. (Added) A fluorescence tube lightning apparatus comprising a pair of inverter circuits disposed on both ends of a fluorescence tube such that alternating voltages having a reverse phase relationship with respect to each other are applied to each end of the fluorescence tube, wherein the pair of inverter circuits are connected using the inductive coupling effect of the coil or the transformer of each inverter circuit.
44. (Added) A fluorescence tube lightning apparatus comprising a pair of inverter circuits disposed on both ends of a fluorescence tube such that alternating voltages having a reverse phase relationship with respect to each other are applied to each end of the fluorescence tube, wherein the pair of inverter circuits are connected using a tertiary winding for non-self oscillation.
45. (Added) A fluorescence tube lightning apparatus according to claim 43 or claim 44, wherein two one-input one-output inverter transformers are mounted on the inverter circuits, respectively.
46. (Added) A fluorescence tube lightning system configured using a plurality of the fluorescence tube lightning apparatus according to any one of claims 43 to 45, wherein the fluorescence tube lightning system is disposed such that fluorescence tubes are arranged in a parallel manner to each other, and the fluorescence tube lightning system has means for connecting each fluorescence tube lightning apparatus using tertiary windings for non-self oscillation such that application voltages applied to each fluorescence tube successively have a reverse phase per each fluorescent tube or per the number of fluorescent tubes of each fluorescent tube lighting apparatus.
47. (Added) A backlight apparatus comprising the fluorescence tube lightning apparatus or the fluorescence tube lightning system according to any one of claims 43 to 46.
48. (Added) A backlight apparatus comprising the fluorescence tube lightning apparatus according to any one of claims 43 to 46, a reflector plate disposed in a facing manner with a fluorescence tube attached to the fluorescence tube lightning apparatus, wherein the reflector plate reflects a light emitted from the fluorescence tube, and a light diffuser disposed on the opposite side of the reflector plate across from the fluorescence tube,

the light diffuser facing the fluorescence tube.

49. (Added) A liquid crystal display apparatus, comprising the backlight according to claim 48, wherein a liquid crystal panel is disposed on the side of the light diffuser of the backlight apparatus that is opposite from the side thereof where the fluorescence tube is disposed.